

No. 891,479.

PATENTED JUNE 23, 1908.

E. F. HOWE.
DRUM STAND.

APPLICATION FILED DEC. 12, 1907.

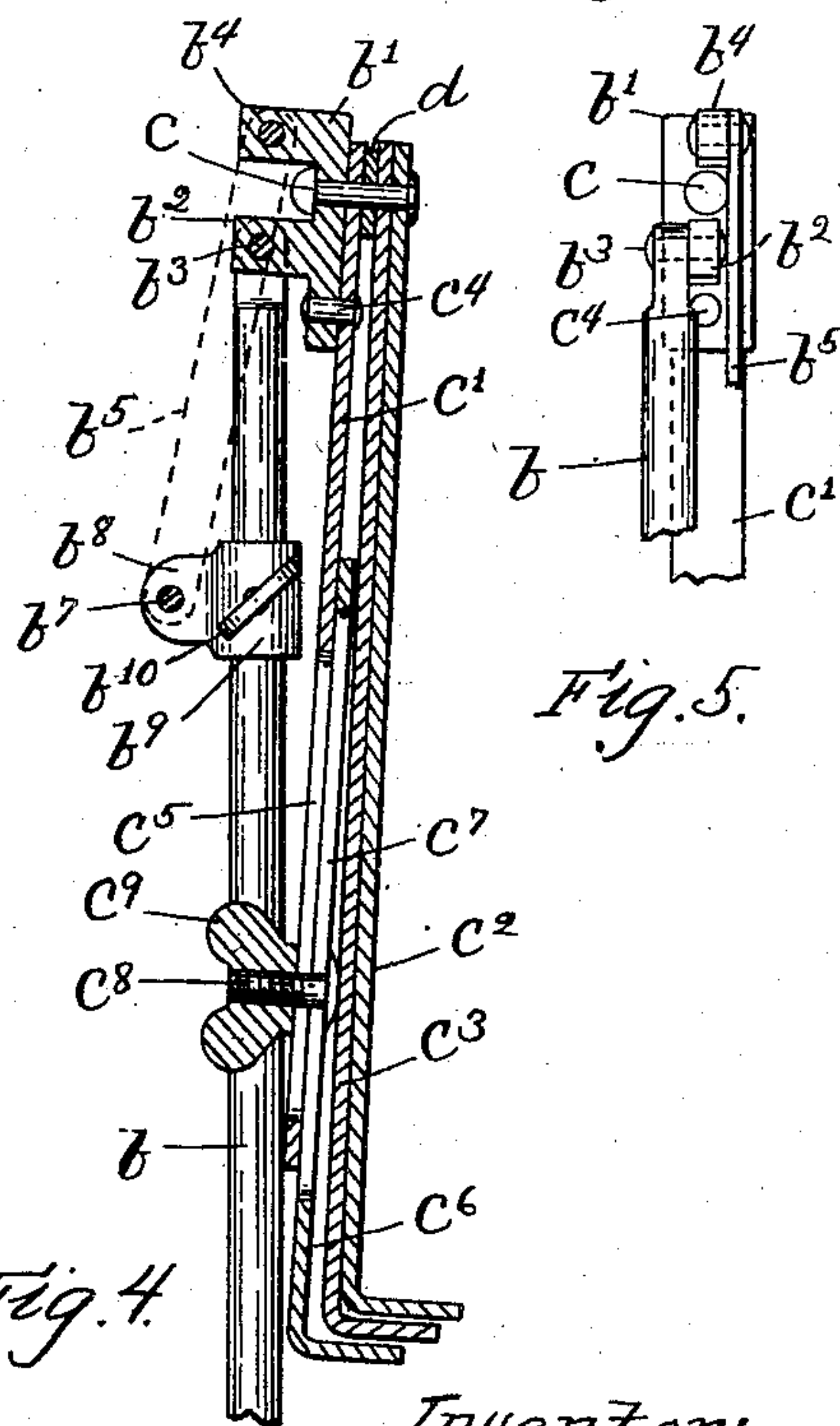
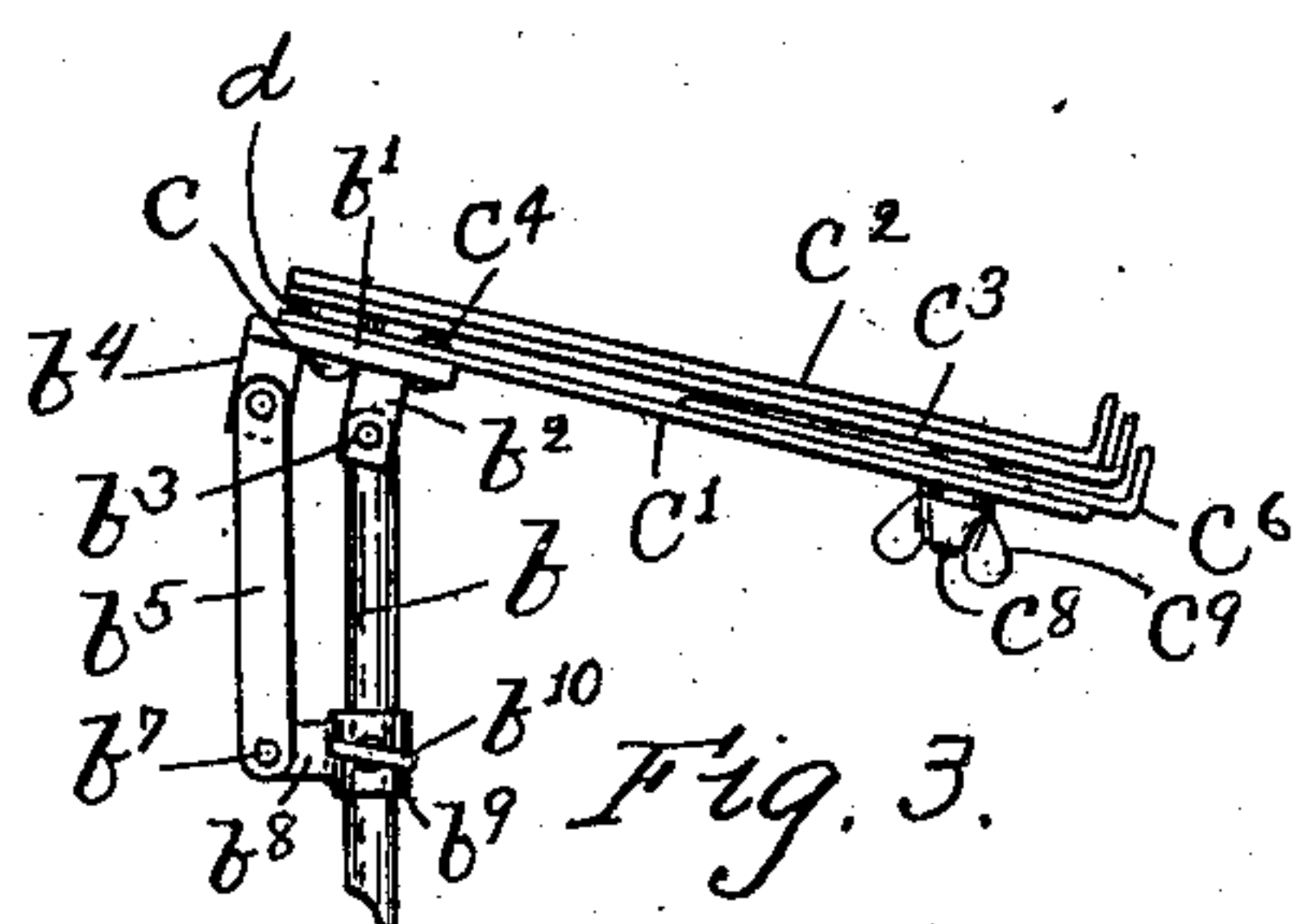
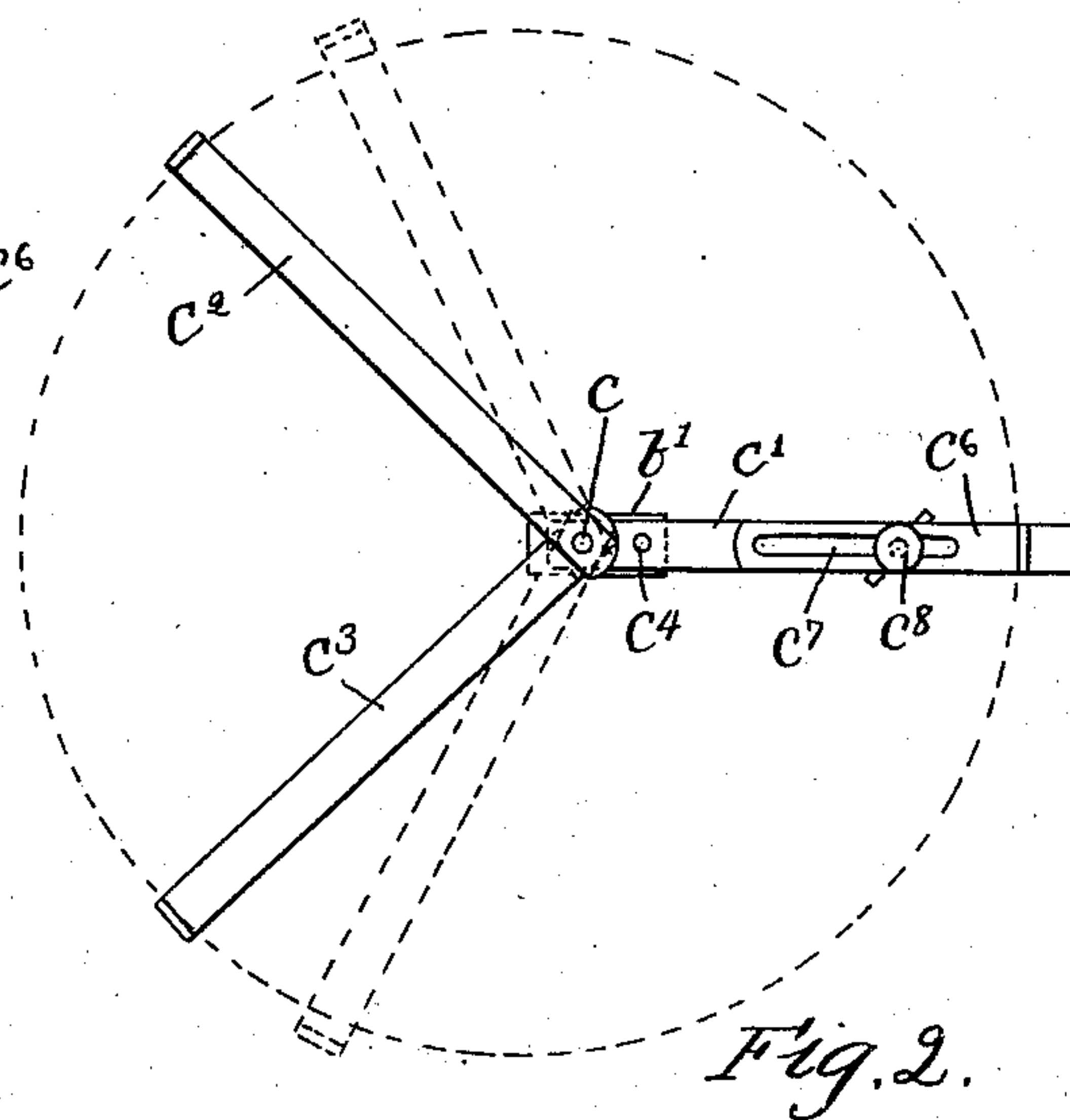
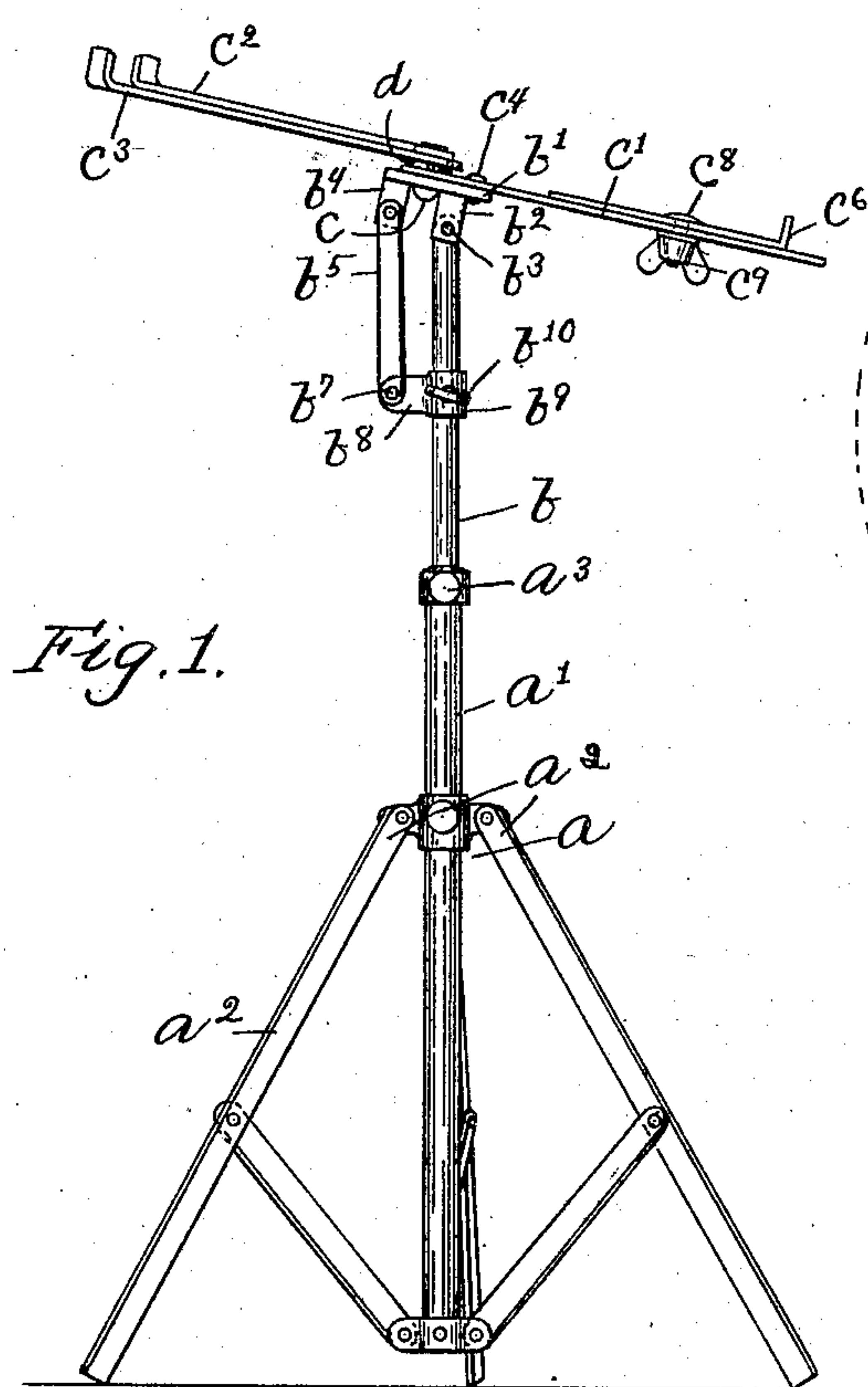


Fig. 5.

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DRUM-STAND.

No. 891,479.

Specification of Letters Patent.

Patented June 23, 1908.

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To all whom it may concern:

Be it known that I, EDWARD F. HOWE, of Needham, county of Norfolk, State of Massachusetts, have invented an Improvement in Drum-Stands, of which the following is a specification.

This invention relates to collapsible drum stands and particularly to the construction of the collapsible drum-holding device which is supported by a collapsible frame arranged on a collapsible base.

The invention has for its object to improve the construction of the collapsible drum-holding device, which is adjustable for drums of different diameters, to the end that all of the movable drum-engaging arms may be pressed into firm engagement with the rim of the drum and held against endwise movement to thereby hold the drum securely; also that when the device is collapsed they will occupy positions one above the other so as to occupy but little space.

The invention also has for its object to improve the construction of the collapsible frame supporting the drum-holding device.

Figure 1 shows in side elevation a drum stand embodying this invention. Fig. 2 is a plan view of the drum-holding device, showing in full lines the drum-engaging arms in position to engage the rim of the drum and in dotted lines the position they will occupy when the drum is disengaged. Fig. 3 is a side view of the drum-holding device with the drum-engaging arms moved into parallelism with each other. Fig. 4 is an enlarged sectional view of the drum-holding device collapsed. Fig. 5 is a detail of the plate which supports the drum-engaging arms and which is pivoted to the upper end of the upright post.

The drum stand comprises essentially a collapsible base, a collapsible frame, and a collapsible drum-holding device which is adapted to be supported by the frame on the base and to be vertically adjusted.

The collapsible base *a* is of any usual or suitable construction, it consisting of a tubular centrally disposed support *a'* for the supporting frame of the drum-holding device and legs *a²*.

b represents an upright post forming a part of the collapsible frame, which is adjustably arranged in the tubular support *a'*, being held therein in different positions of vertical adjustment by a set-screw *a³*. At the upper end of the post *b* a block *b'* is pivoted, it hav-

ing upon its under side an ear *b²* through which a pivot-pin *b³* passes which pivotally connects it with the post. The block *b'* also has an ear *b⁴* on its under side to which the upper end of a link *b⁵* is connected by a pivot pin *b⁶*. The lower end of the link is connected by a pivot-pin *b⁷* to an ear *b⁸* extended laterally from a collar *b⁹* which is mounted slidably on the post *b*. The collar *b⁹* has a set-screw *b¹⁰* for fixing it in any position on the post it may be set. When the set-screw *b¹⁰* is loosened the block *b'* may be tilted to different angles, with respect to the post, and also, moved into parallelism with the post, the collar *b⁹* sliding on the post as the block is thus tilted, or moved on its pivot, and when the desired angle or position is obtained the set-screw will be tightened and the block thereby held securely in its adjusted position. This collapsible frame is employed to support the collapsible drum-holding device or other collapsible support which is arranged on it.

The drum-holding device herein shown will now be described.

A single pivot-pin *c* extends up through the block *b* and upon this pin three arms *c¹*, *c²* and *c³* are placed, one above the other. The arm *c¹* is additionally secured to the block by a rivet *c⁴*, thereby rigidly connecting it with the block. This fixed arm *c¹* is provided at its extremity with a slot *c⁵* and an extension arm *c⁶* is arranged on said fixed arm, which is likewise provided with a slot *c⁷*, and a screw *c⁸* extends down through the slots in both of said arms, its lower projecting screw-threaded end receiving upon it a winged nut *c⁹*, which may be turned on the screw to tightly hold the extension arm in any position with relation to the fixed arm. The extension arm has an upturned end to engage the rim of the drum and hence serves as one of the drum-engaging arms. The fixed arm with the extension therein constitutes a longitudinally adjustable arm. The arms *c²* and *c³* are superimposed and are adapted to be turned on the pivot-pin *c* to occupy any desired position with relation to the fixed arm, and said arms *c²* and *c³* are each provided with an upturned end to engage the rim of the drum and therefore serve as drum-engaging arms. The arms *c²* and *c³* may be moved into a position above and in parallelism with the fixed arm when it is desired to collapse the drum holding device or they may be moved outward, in opposite ways, to engage the rim of the

drum at different points. A washer d is placed beneath the lower most arm c^2 so as to raise both arms c^2 and c^3 to a plane above the fixed arm.

5 To operate the device to engage the drum the extension arm is adjusted to engage the rim of the drum with the block, to which the arms c^2 and c^3 are pivoted, occupying a position between the center of the drum and the
10 point on the rim which is engaged by said arm, see Fig. 2, and when so adjusted the fixed arm together with its adjustable extension, will be shorter than the arms c^2 and c^3 . Then the arms c^2 and c^3 , which extend in
15 opposite ways from the fixed arm, are moved toward each other and thereby brought into firm engagement with the rim of the drum.

As the extension arm is securely held by the adjusting-nut and screw the arms c^2 and
20 c^3 may be pressed firmly into engagement with the rim of the drum and longitudinal strain on the fixed arm is thereby effectively resisted. Such unobstructed movement of the arms c^2 and c^3 is permitted by reason of
25 the block having a plain face; that is to say, a face devoid of projections or stops which would obstruct or limit the movement of the arms. The drum is thus pressed into firm engagement with the fixed arm by said pivot
30 arms.

To operate the device to permit the removal of the drum and to collapse the device the two arms c^2 and c^3 are moved in a direction away from each other and then the drum
35 is removed. Then by drawing out the extension arm, the arms c^2 and c^3 may be moved into a position above and in parallelism with the fixed arm, a result permitted by reason of the arm c^2 being made longer than the arm c^3 .
40 This manner of collapsing the device is permissive, but if it is not desired to draw out the extension arm on account of the necessity of subsequently resetting it, when again using the device, said extension arm may remain set and the arms c^2 and c^3 merely swung
45 into approximately parallelism with it, either at one side of it, or at opposite sides of it. The device when thus collapsed will occupy more space than if collapsed in the manner
50 first described, wherein the three arms are arranged one above the other. The drum holding device thus collapsed is then swung into parallelism with the post b , as shown in Fig. 4, the block b' moving on its pivot to provide
55 for such movement.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent is:—

1. In a drum stand, a collapsible drum-
60 holding device consisting of an upright post, a block pivotally supported thereon, a collar slidably mounted on said post having a laterally extended ear, a link pivotally connected at one end to said ear and at the other end

to said block, a set-screw extended through 65 said collar into engagement with the post, and a plurality of drum-engaging arms arranged on said block, substantially as described.

2. In a drum stand, a collapsible drum- 70 holding device consisting of an upright post, a block supported thereon having a plain face, a pair of drum-engaging arms pivotally connected to said block, and a longitudinally adjustable drum-engaging arm rigidly se- 75 cured to said block adapted by adjustment to be made shorter than said pivoted arms to dispose the supporting-block at one side of the center, whereby the drum may be pressed into engagement with the fixed arm by a 80 swinging movement of the pivoted arms, substantially as described.

3. In a drum stand, a collapsible drum- holding device consisting of an upright post, a block supported thereon, an arm rigidly 85 secured to said block, a drum-engaging arm adjustably connected therewith which forms an extension thereof, and a pair of superimposed drum-engaging arms pivotally connected to said block, one of which is 90 made longer than the other, substantially as described.

4. In a drum stand, a collapsible drum- holding device consisting of an upright post, a block supported thereon, an arm rigidly se- 95 cured to said block, a drum-engaging arm adjustably connected therewith which forms an extension thereof, and a pair of superimposed drum-engaging arms pivotally connected to said block above said fixed arm which 100 are movable into a position above and in parallelism with said fixed arm when the device is collapsed, substantially as described.

5. In a drum stand, a collapsible drum- holding device consisting of an upright post, 105 a block supported thereon, a longitudinally extensible drum-engaging arm secured to said block and a pair of superimposed drum-engaging arms pivotally supported on said block above the aforesaid arm, substantially 110 as described.

6. The collapsible supporting-frame consisting of an upright post, a block pivotally connected thereto, a collar slidably mounted on said post having a laterally extended ear, 115 a link pivotally connected at one end to said ear and at the other end to said block, a set screw extended through said collar into engagement with the post and a collapsible support arranged on said block, substantially as 120 described.

In testimony whereof, I have signed my name to this specification, in the presence of two subscribing witnesses.

EDWARD F. HOWE.

Witnesses:

HORACE J. HOOTON,
ADDIE C. SANBORN.